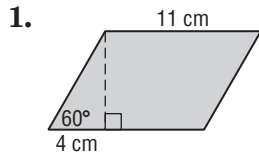
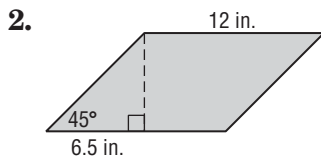


# 11 Chapter 11 Test, Form 2D

For Questions 1 and 2, find the area of each parallelogram to the nearest tenth.

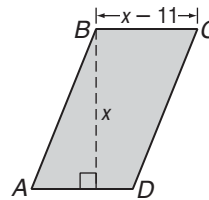


1. \_\_\_\_\_



2. \_\_\_\_\_

3. If the area of parallelogram  $ABCD$  is 570 square meters, find the lengths of the height and base.

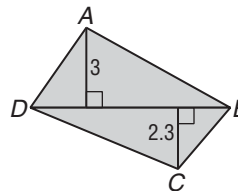


3. \_\_\_\_\_

4. Classify quadrilateral  $ABCD$ , with vertices  $A(1, 1)$ ,  $B(1, -3)$ ,  $C(-3, -3)$ , and  $D(-3, 1)$ . List all that apply.

4. \_\_\_\_\_

5. Find the area of quadrilateral  $ABCD$ , if  $DB = 7.5$ . Round to the nearest tenth.



5. \_\_\_\_\_

For Questions 6 and 7, find the area of each quadrilateral given the coordinates of the vertices.

6. trapezoid  $GHIJ$ ;  $G(-2, 1)$ ,  $H(2, 3)$ ,  $I(2, -3)$ , and  $J(-2, -1)$

6. \_\_\_\_\_

7. rhombus  $KLMN$ ;  $K(-3, 7)$ ,  $L(0, 3)$ ,  $M(-3, -1)$ , and  $N(-6, 3)$

7. \_\_\_\_\_

For Questions 8–10, find the area of each polygon to the nearest tenth.

8. a square with an apothem length of 3 inches

8. \_\_\_\_\_

9. a regular hexagon with a side length of 15 centimeters

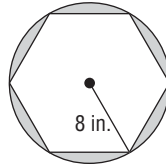
9. \_\_\_\_\_

10. an equilateral triangle with a perimeter of 42 meters

10. \_\_\_\_\_

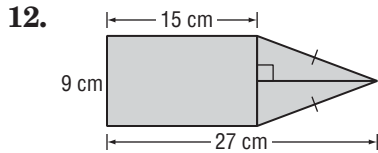
# 11 Chapter 11 Test, Form 2D *(continued)*

11. Find the area of the shaded region to the nearest tenth. Assume that the hexagon is regular.

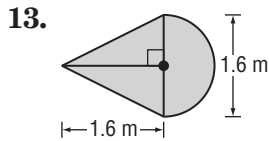


11. \_\_\_\_\_

For Questions 12–14, find the area of each figure to the nearest tenth.



12. \_\_\_\_\_

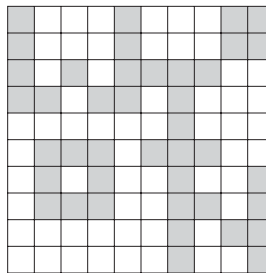


13. \_\_\_\_\_

14. pentagon  $RSTUV$  with vertices  $R(4, -2)$ ,  $S(0, -1)$ ,  $T(-3, -1)$ ,  $U(0, -4)$ , and  $V(4, -4)$

14. \_\_\_\_\_

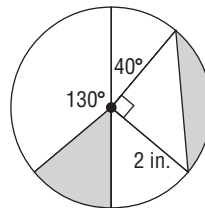
15. A group of children are tossing a coin on this game board. To win the game the coin must land on a shaded part of the board. What is the probability of winning?



15. \_\_\_\_\_

For Questions 16 and 17, use the figure at the right. Round to the nearest tenth.

16. Find the probability that a point selected at random lies in the shaded sector.



16. \_\_\_\_\_

17. Find the probability that a point selected at random lies in the shaded segment.

17. \_\_\_\_\_

**Bonus** If one diagonal of a rhombus is 15 meters long and its area is 157.5 square meters, find the measure of the other diagonal.

**B:** \_\_\_\_\_